16/1/25

Repeated Differentiation of Sine and Cosine

- a) For which of the functions whose graphs are displayed by the Creating the Derivative mathlet is it true that f''(x) = -f(x)?
- b) Can you think of any other functions for which f''(x) = -f(x)?

a) sinx, $\cos x$ b) f(x) = 0, $f(x) = \alpha \cos x + b \sin x$

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